

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/820,477C

Source: IFWP

Date Processed by STIC: 11/9/04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/09/2004

PATENT APPLICATION: US/10/820,477C

TIME: 16:37:08

Input Set : A:\SubstituteSequenceListing.txt

Output Set: N:\CRF4\11092004\J820477C.raw

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3 <110> APPLICANT: Siler-Khodr, Theresa M.
5 <120> TITLE OF INVENTION: Non-Mammalian GnRH Analogs and Uses Thereof in Regulation of.
6   Fertility and Pregnancy
8 <130> FILE REFERENCE: P7345.2(CIP)6
10 <140> CURRENT APPLICATION NUMBER: US 10/820,477C
12 <141> CURRENT FILING DATE: 2004-04-08
14 <150> PRIOR APPLICATION NUMBER: US 10/639,405
16 <151> PRIOR FILING DATE: 2003-08-12
18 <160> NUMBER OF SEQ ID NOS: 16
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 30
22 <212> TYPE: DNA
23 <213> ORGANISM: Gallus gallus (Chicken II GnRH)
25 <400> SEQUENCE: 1
26 cagcactggt cccatggctg gtaccctgga      30
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 10
30 <212> TYPE: PRT
31 <213> ORGANISM: Unknown
33 <220> FEATURE:
34 <221> NAME/KEY: mat_peptide
35 <222> LOCATION: 6
36 <223> OTHER INFORMATION: Chicken II GnRH Analog. MOD_RES substitution of Gly residue
37   at 10 by aza-Gly-NH2, ethylamide or other Gly amide. Xaa represents
38   D-Arg, D-Leu, D-tBu-Ser, or D-Trp. MOD_RES Glu at position 1 is
39   pyroglutamic acid.
41 <400> SEQUENCE: 2
W--> 42 Glu His Trp Ser His Xaa Trp Tyr Pro Gly
43           5              10
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 30
47 <212> TYPE: DNA
48 <213> ORGANISM: Salmo salar (Salmon GnRH)
50 <400> SEQUENCE: 3
51 cagcactggt cttatggctg gctgcctgga      30
53 <210> SEQ ID NO: 4
54 <211> LENGTH: 10
55 <212> TYPE: PRT
56 <213> ORGANISM: Unknown
58 <220> FEATURE:
59 <221> NAME/KEY: mat_peptide
60 <222> LOCATION: 6
61 <223> OTHER INFORMATION: Salmon GnRH Analog. MOD_RES substitution of Gly residue

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62 at 10 with aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents
 63 D-Arg. MOD_RES Glu at position 1 is pyroglutamic acid.
 65 <400> SEQUENCE: 4
 W--> 66 Glu His Trp Ser Tyr Xaa Trp Leu Pro Gly
 67 5 10
 69 <210> SEQ ID NO: 5
 70 <211> LENGTH: 10
 71 <212> TYPE: PRT
 72 <213> ORGANISM: Homo sapiens (Mammalian GnRH)
 74 <220> FEATURE:
 75 <221> NAME/KEY: mat_peptide
 76 <222> LOCATION: unknown
 77 <223> OTHER INFORMATION: MOD_RES Glu at position 1 is pyroglutamic acid.
 79 <400> SEQUENCE: 5
 80 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
 81 5 10
 83 <210> SEQ ID NO: 6
 84 <211> LENGTH: 10
 85 <212> TYPE: PRT
 86 <213> ORGANISM: Gallus gallus (Chicken II GnRH)
 88 <220> FEATURE:
 89 <221> NAME/KEY: mat_peptide
 90 <222> LOCATION: Within brain MRNA 121-150, within brain gene 2174-2203
 91 <223> OTHER INFORMATION: MOD_RES Glu at position 1 is pyroglutamic acid.
 93 <400> SEQUENCE: 6
 94 Glu His Trp Ser His Gly Trp Tyr Pro Gly
 95 5 10
 97 <210> SEQ ID NO: 7
 98 <211> LENGTH: 10
 99 <212> TYPE: PRT
 100 <213> ORGANISM: Salmo salar (Salmon GnRH)
 102 <220> FEATURE:
 103 <221> NAME/KEY: mat_peptide
 104 <222> LOCATION: unknown
 105 <223> OTHER INFORMATION: MOD_RES Glu at position 1 is pyroglutamic acid
 107 <400> SEQUENCE: 7
 108 Glu His Trp Ser Tyr Gly Trp Leu Pro Gly
 109 5 10
 110 <210> SEQ ID NO: 8
 111 <211> LENGTH: 30
 112 <212> TYPE: RNA
 113 <213> ORGANISM: Gallus gallus (Chicken II GnRH)
 116 <400> SEQUENCE: 8
 117 gucgugacca ggguaccgac caugggaccu 30
 121 <210> SEQ ID NO: 9
 122 <211> LENGTH: 30
 123 <212> TYPE: RNA
 124 <213> ORGANISM: Salmo salar (Salmon GnRH).
 126 <400> SEQUENCE: 9

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127 gucgugacca gaauaccgac cgacggaccu 30
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 9
131 <212> TYPE: PRT
132 <213> ORGANISM: Unknown
134 <220> FEATURE:
135 <221> NAME/KEY: mat_peptide
136 <222> LOCATION: 6
137 <223> OTHER INFORMATION: Buserelin. MOD_RES Glu at position 1 is pyroglutamic acid.
138     XAA represents D-Ser (t-Bu). MOD_RES PRO residue at 9 bound to
139     ethylamide.
141 <400> SEQUENCE: 10
W--> 142 Glu His Trp Ser Tyr Xaa Leu Arg Pro
143           5
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 9
147 <212> TYPE: PRT
148 <213> ORGANISM: Unknown
150 <220> FEATURE:
151 <221> NAME/KEY: mat_peptide
152 <222> LOCATION: 6
153 <223> OTHER INFORMATION: Leuprolide. MOD_RES Glu at position 1 is pyroglutamic acid.
154     XAA represents D-Leu. MOD_RES PRO residue at 9 bound to ethylamide.
156 <400> SEQUENCE: 11
W--> 157 Glu His Trp Ser Tyr Xaa Leu Arg Pro
158           5
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 10
162 <212> TYPE: PRT
163 <213> ORGANISM: Unknown
165 <220> FEATURE:
166 <221> NAME/KEY: mat_peptide
167 <222> LOCATION: 1,2,3,5,6,8,10
168 <223> OTHER INFORMATION: Antide. XAA 1 is Ac-D-Nal, XAA2 is D-Cpa, XAA3 is D-Pal,
XAA5 is NicLys,
169     XAA6 is D-NicLys, XAA8 is ILys, XAA10 is D-Ala.
173 <400> SEQUENCE: 12
W--> 174 Xaa Xaa Xaa Ser Xaa Xaa Leu Xaa Pro Xaa
175           5           10
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 10
179 <212> TYPE: PRT
180 <213> ORGANISM: Gallus gallus (Chicken I GnRH)
182 <220> FEATURE:
183 <221> NAME/KEY: mat_peptide
184 <222> LOCATION: unknown
185 <223> OTHER INFORMATION: MOD_RES Glu at position 1 is pyroglutamic acid.
187 <400> SEQUENCE: 13
188 Glu His Trp Ser Tyr Gly Leu Gln Pro Gly
189           5           10

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191 <210> SEQ ID NO: 14
192 <211> LENGTH: 10
193 <212> TYPE: PRT
194 <213> ORGANISM: Lampetra genus (Lamprey GnRH)
196 <220> FEATURE:
197 <221> NAME/KEY: mat_peptide
198 <222> LOCATION: unknown
199 <223> OTHER INFORMATION: MOD_RES Glu at position 1 is pyroglutamic acid.
201 <400> SEQUENCE: 14
202 Glu His Trp Ser Leu Glu Trp Lys Pro Gly
203          5          10
205 <210> SEQ ID NO: 15
206 <211> LENGTH: 30
207 <212> TYPE: DNA
208 <213> ORGANISM: Clupea harengus (Herring GnRH)
210 <400> SEQUENCE: 15
211 cagcactggg cttatggctg gctgcctgga      30
213 <210> SEQ ID NO: 16
214 <211> LENGTH: 10
215 <212> TYPE: PRT
216 <213> ORGANISM: Unknown
218 <220> FEATURE:
219 <221> NAME/KEY: mat_peptide
220 <222> LOCATION: 6
221 <223> OTHER INFORMATION: Herring GnRH Analog. MOD_RES substitution of Gly
222     residue at 10 with aza-Gly-NH2, ethylamide or other Gly
223     amide. Xaa represents D-Arg. MOD_RES Glu at position 1 is
224     pyroglutamic acid.
226 <400> SEQUENCE: 16
--> 227 Glu His Trp Ser Tyr Xaa Leu Ser Pro Gly
228          5          10

```

RAW SEQUENCE LISTING ERROR SUMMARY
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ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:2; Xaa Pos. 5
#:4; Xaa Pos. 6
#:10; Xaa Pos. 6
#:11; Xaa Pos. 6
#:12; Xaa Pos. 1, 2, 3, 5, 6, 8, 10
#:16; Xaa Pos. 6

VERIFICATION SUMMARY

DATE: 11/09/2004

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Input Set : A:\SubstituteSequenceListing.txt

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42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0